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Notice of Allowability	Application No.	Applicant(s)	-
	00/009 193	PIIRAINEN, OLLI	
	09/998,183 Examiner	Art Unit	-
	Phuong Phu	2631	-
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS All claims being allowable, PROSECUTION ON THE MERITS IS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS	
1. $igtimes$ This communication is responsive to $the amendment filed of the communication is responsive to$	<u>on 11/18/04</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-12</u> .			
3. $\boxtimes$ The drawings filed on <u>03 December 2001</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the case of the priority attached Examiner's comment regarding REQUIREMENT (comment to the priority attached Examiner's comment regarding REQUIREMENT (comment to the priority attached Examiner's comment regarding REQUIREMENT (comment to the priority attached Examiner's comment regarding REQUIREMENT (comment to the priority attached Examiner's comment regarding REQUIREMENT (comment to the priority attached Examiner's comment to	been received.  been received in Application No cuments have been received in this in of this communication to file a reply a ENT of this application.  itted. Note the attached EXAMINER' as reason(s) why the oath or declarate the submitted. on's Patent Drawing Review (PTO-1) as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in sit of BIOLOGICAL MATERIAL in	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of the back) of d).  nust be submitted. Note the	
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	te .	

Application/Control Number: 09/998,183 Page 2

Art Unit: 2631

## **REASONS FOR ALLOWANCE**

1. This Office Action is responsive to the Amendment filed on 11/18/04.

2. Claims 1-12 are allowed.

3. The following is an examiner's statement of reasons for allowance:

-Regarding to independent claims 1, 6, 11 and 12, none of prior art of record teaches or suggests a method and associated system comprising, in combinations, procedures/devices for estimating a channel impulse response of a received signal; determining noise power of a received signal by estimating a covariance matrix of the noise contained in the received signal before prefiltering the received signal by using the estimated impulse response; calculating tap coefficients of prefilters and a channel equalizer by using the noise power and the impulse response estimate; determining the noise power after the prefiltering the received signal by estimating a noise variance after the prefiltering; and weighting input signals of the channel equalizer by weighting coefficients obtained from the noise variance estimation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

Art Unit: 2631

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu **Primary Examiner** Art Unit 2631

Phuong Phu

03/18/05